



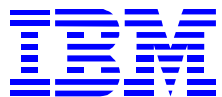
# **U.S. Department of Energy**

## **Office of Management, Budget and Evaluation**

### **Integrating DOE's Business Management Systems**

#### **FMSIC**

*November 19, 2002*



**Chris Simpson, Director, Office of Management Analysis / OMBE**

## Agenda

- **Independent Review Status**
- **I-MANAGE Program Description**
- **Project Update**

# Independent Review and Assessment

- **Tasking (in part)**
  - Review Phoenix (and related BMIS) information
    - \* Does this project have a clear vision / view of requirements?
    - \* Is the project strategy clear and aligned with the Enterprise Architecture?
    - \* Is the defined strategy comprehensive and feasible?
  - Document findings and recommendations
    - \* Show gaps between documented Enterprise Architecture, proposed Phoenix and the CIO & OMBE/CFO vision
    - \* Provide specific recommendations for the road ahead for both the Phoenix and Enterprise Architecture efforts

## Conclusions and Recommendations

- **Strong team, strong user involvement and management support**
- **The hold period was used constructively to refine the core program and to evolve planning for future integration**
- **No compelling reason for not proceeding with the core Phoenix project, providing it is supported by intensified planning and Enterprise Architecture activities**
- **Continue with Phoenix implementation; suggest a rapid project re-start**

## I-MANAGE Program

**Dr. Carnes has appointed Christopher Simpson as the Director of OMBE's Office of Management Analysis to:**

- Oversee DOE Corporate Business Management Systems integration and development
- Prepare an overall DOE corporate business systems architecture
- Ensure the approved solution addresses the full integration of financial management, procurement, budget, and performance measurement

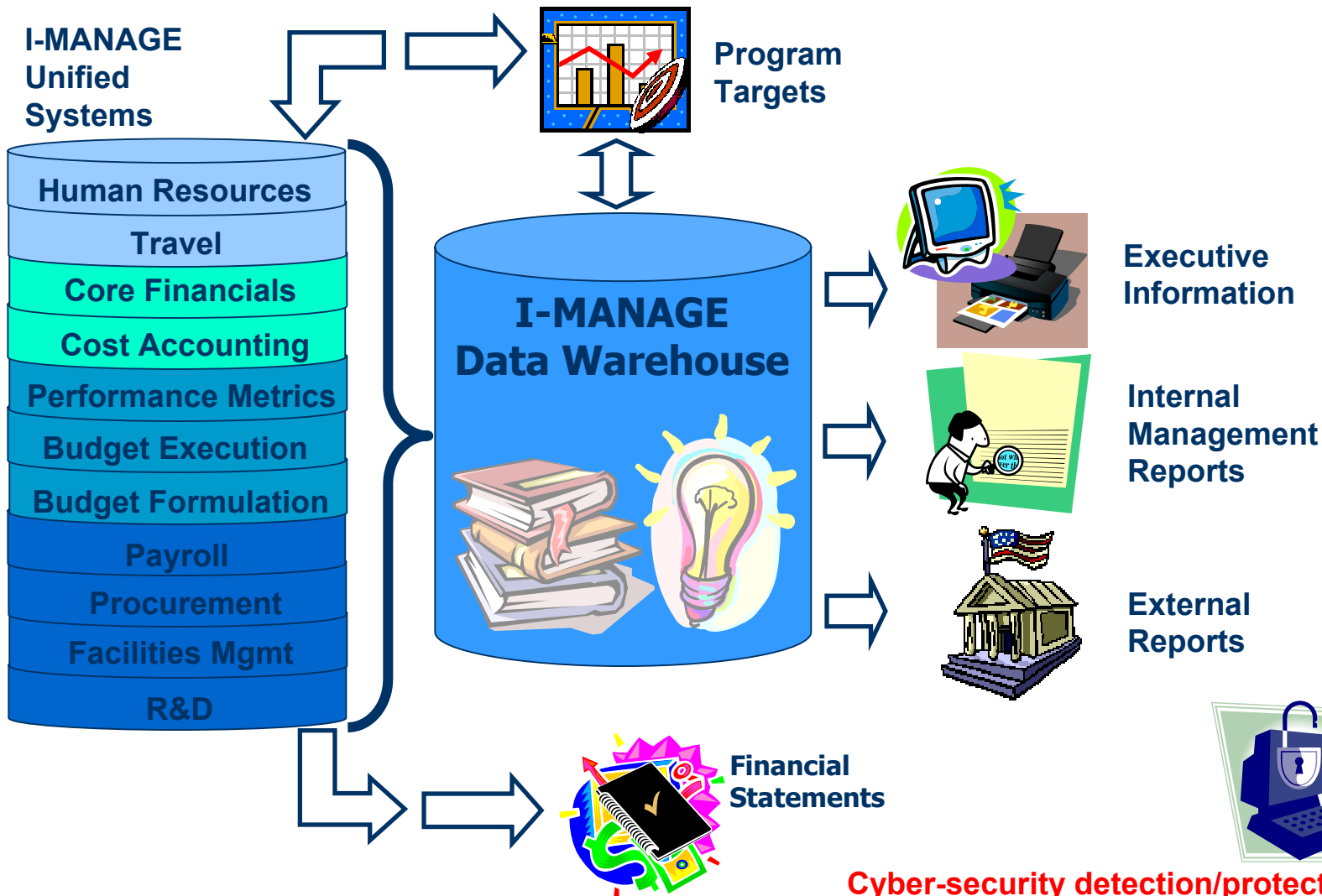
## I-MANAGE Program Description

**The I-MANAGE Program will consolidate and streamline Department-wide efforts to integrate financial, budgetary, procurement, personnel, program and performance information. This unified system will be supported at the core by a central data warehouse that links common data elements from each of the Department's business systems. Each manager will use the central data warehouse as a "knowledge bank" of information about portfolios, programs or projects including budget execution, accumulated costs, performance achieved, and critical milestones met. User alerts will be provided based on business rules defined specifically for each program office, and directed to the appropriate executive or manager for action.**

## Strategic Objectives of I-MANAGE Program

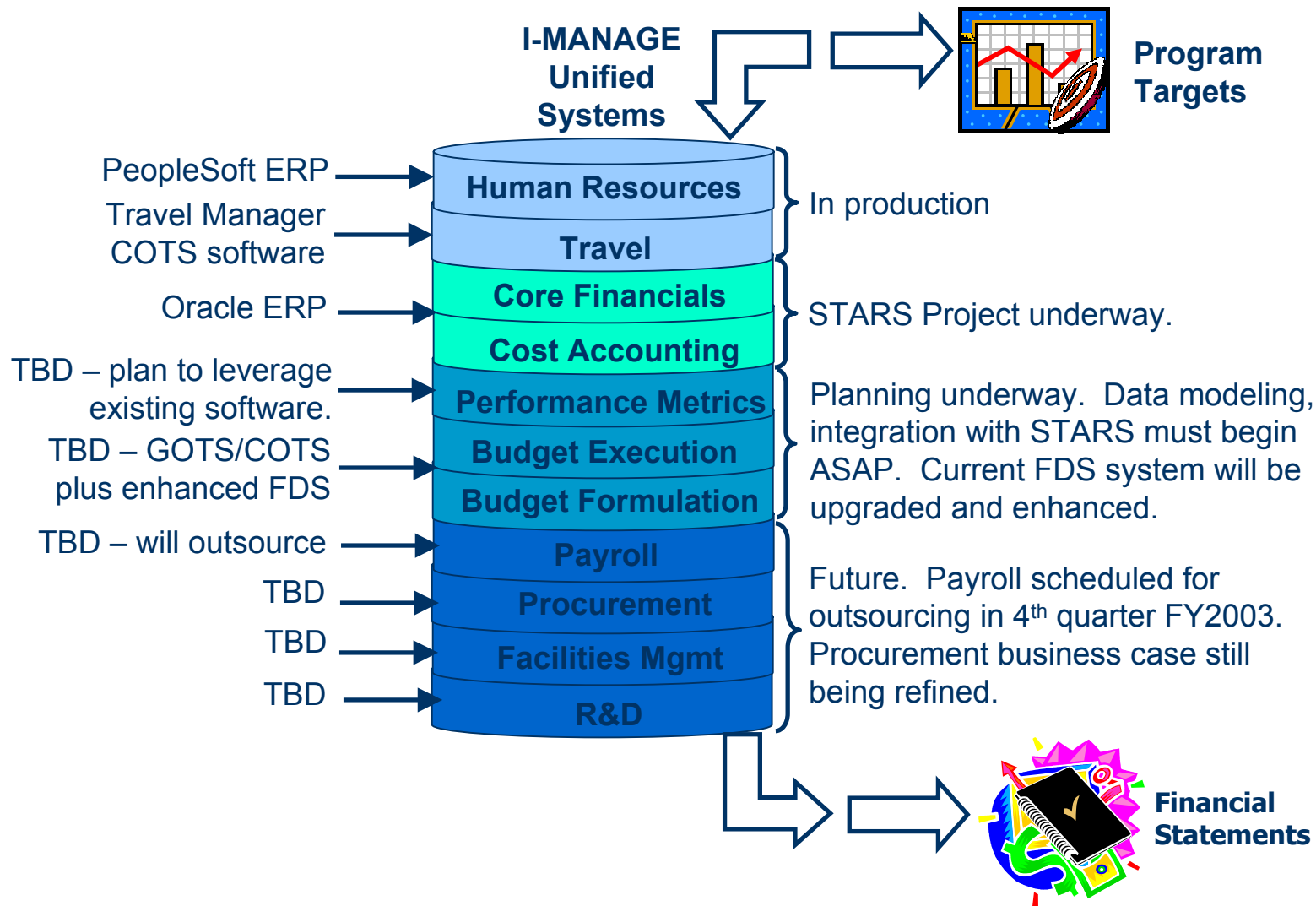
- **Achieve President's Management Agenda**
  - Financial Performance
  - Budget and Performance Integration
  - E-Government
- **Consolidate technology initiatives under one umbrella**
  - Projects managed as a portfolio with visibility and understanding of interrelationships, cost/benefits, dependencies
  - Ensure common goals and objectives are identified and followed
  - Eliminate redundant systems and data
  - Provide more efficient use of finite human resources
- **Establish and follow a blueprint for unified systems**
  - Align with CIO's Enterprise Architecture
  - Consistent standards, common architecture reduce overall cost
  - Replace multiple, outdated systems
  - Establish strong, consistent standards for cyber-security

# Vision of the Future Implementing I-MANAGE



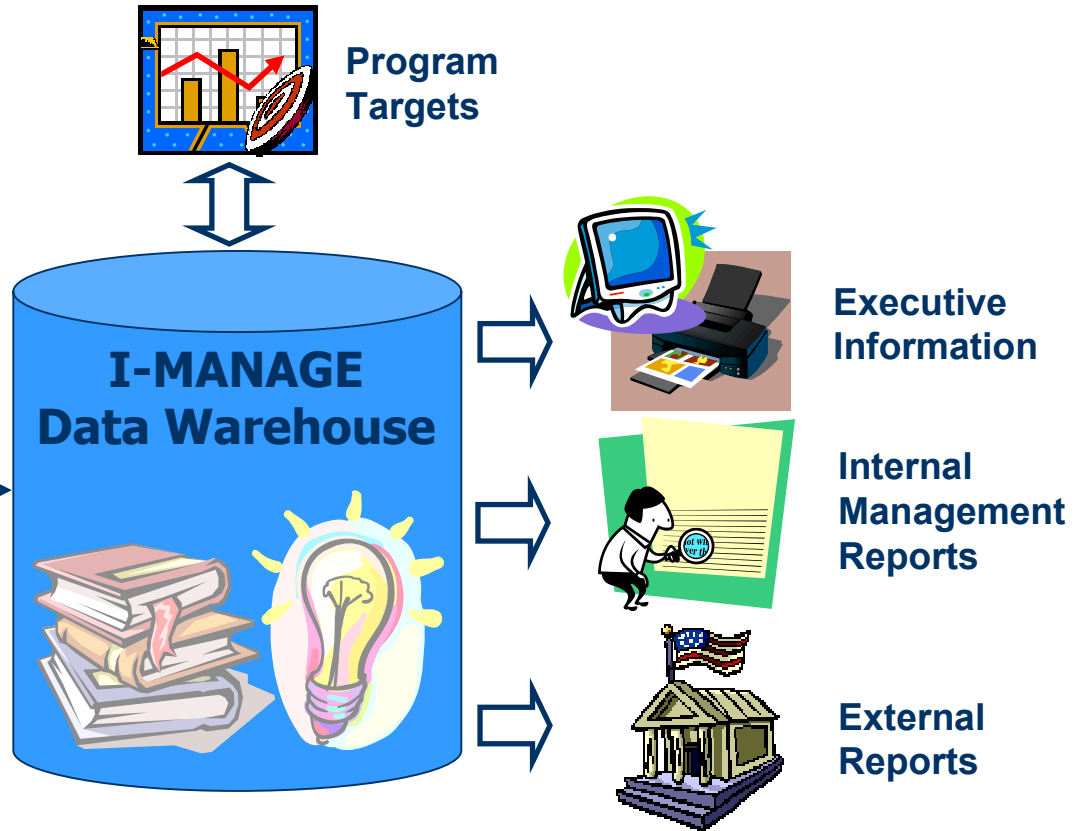


# I-MANAGE Overview



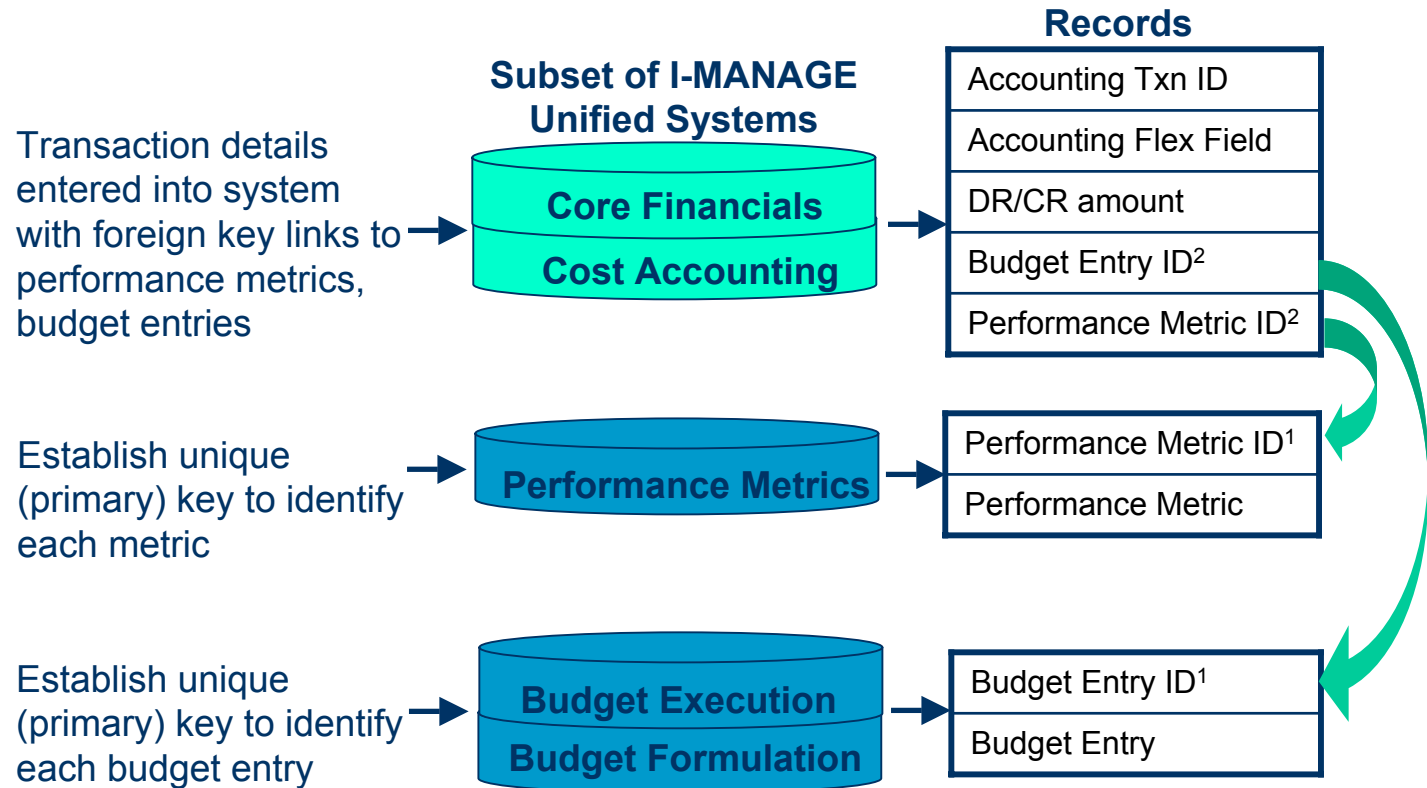
# I-MANAGE Overview

Planning underway. Data modeling, integration with STARS should begin ASAP. The I-MANAGE Data Warehouse is a critical component of the I-MANAGE Vision, key to achieving I-MANAGE strategic objectives.



# I-MANAGE Overview

How records are linked within relational database systems



1: Primary key – uniquely identifies single record within a file or table.

2: Foreign key – pointer to the primary key of a specific record in a separate file or table. This establishes a “relationship” between the two tables.

# I-MANAGE Overview

## An Example of Integrating Budget / Performance / Cost Accounting

### Hierarchy of Performance Metrics

#### ER Departmental Goal:

Increase global energy security, maintain energy affordability, and reduce environmental .....



#### ER1 Department Strategic Objective:

Use public-private partnerships to promote energy efficiency and productivity .....



#### ER1-3 Program Strategic Performance Goal:

Partner with industry, research organizations, State Governments and other Federal agencies to develop and use advanced vehicle technologies and fuels .....



#### ER1-3 Performance Indicator:

- Estimated cost of high power 25kW batteries.
- Cost of 50kW vehicle fuel cell power systems.
- Number of alternative fuel vehicles in Clean Cities.

By creating a hierarchy, and then linking cost data with the lowest level performance data, the system can automatically report at any level of the hierarchy through “rollups”. This functionality would be available on a near real-time basis.



Performance Metric ID <sup>1</sup>
Performance Metric

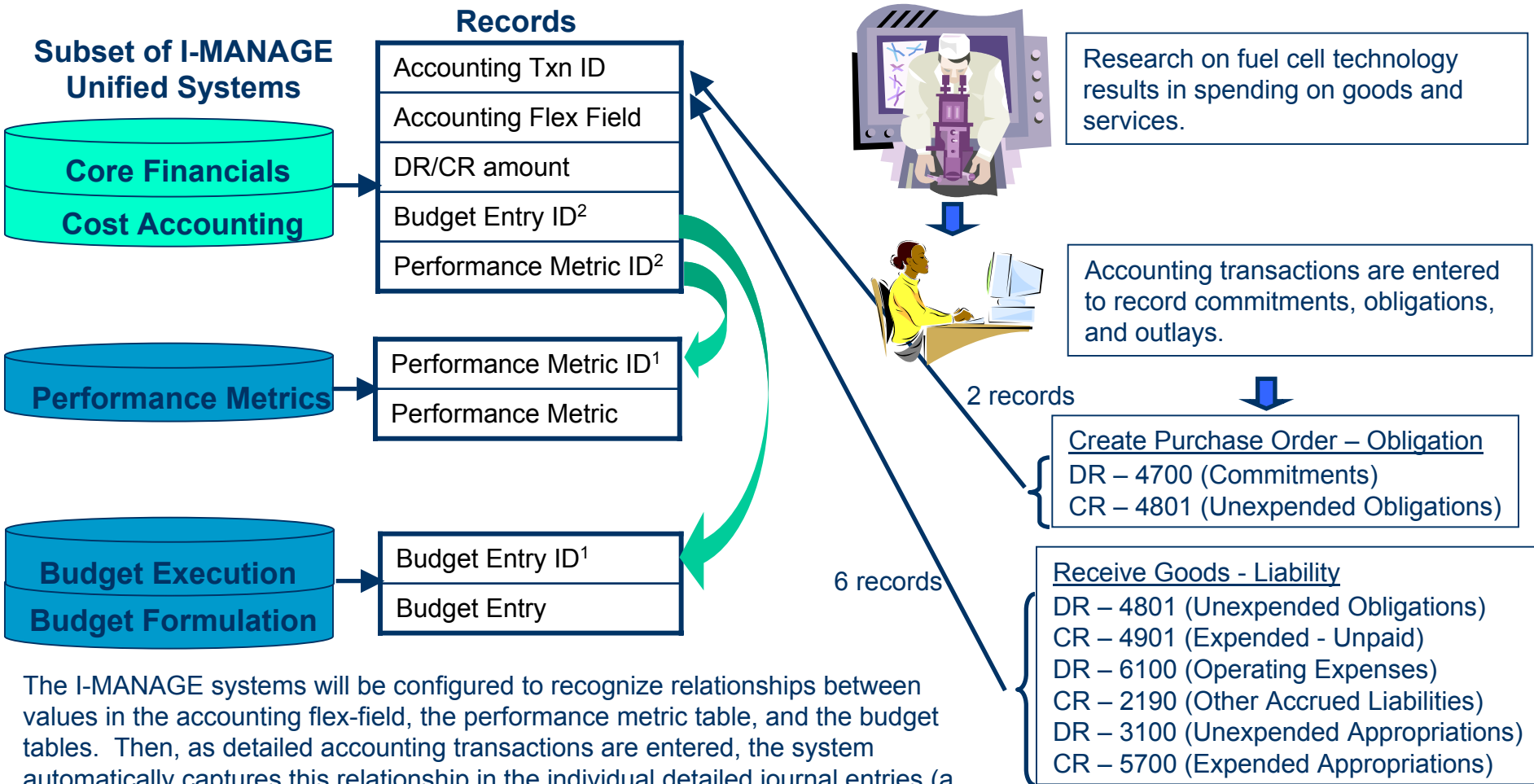


Store performance indicator in table. This will then be used to link to detailed accounting transactions as they are entered.



# I-MANAGE Overview

## An Example of Integrating Budget / Performance / Cost Accounting



The I-MANAGE systems will be configured to recognize relationships between values in the accounting flex-field, the performance metric table, and the budget tables. Then, as detailed accounting transactions are entered, the system automatically captures this relationship in the individual detailed journal entries (a single debit or credit), thus providing a way to accurately measure the cost of fuel cell technology research, from individual detailed transactions to summarized obligations, summarized costs, or summarized at the individual levels of the performance metric hierarchy.

## I-MANAGE Project Portfolio

- **Standard Accounting and Reporting System (STARS) Project**
  - Oracle Federal Financial Applications
  - Project currently in progress
  - General ledger, accounts payable / receivable, fixed assets, limited purchasing functionality (funds control)
  - Will provide financial and cost accounting
  - Includes some budget execution functionality
    - \* Records appropriations, apportionments, allotments, sub-allotment entries
    - \* Records commitments, obligations, costs, and provides funds control
  - Will integrate performance metrics with budget, obligations, and costs
  - Will provide standard federal financial reporting
  - Strong, ad-hoc query and reporting capability

## I-MANAGE Project Portfolio

- **Corporate Human Resource and Information System (CHRIS)**
  - PeopleSoft Human Resource Applications
  - Currently in production
  - Must integrate with Oracle Financial Applications (STARS) and other proposed I-MANAGE systems
- **Travel Management**
  - Travel Manager COTS software application
  - Currently in production, recently upgraded
  - Must integrate with Oracle Financial Applications
    - \* Funds control (funds availability, commitments, obligations, outlays)
    - \* Accounts payable for travel expense reimbursement
    - \* Accounts receivable if travel advances authorized and greater than travel expenses

## I-MANAGE Project Portfolio

- **Standard Budget System**

- Technology, software not yet selected
- Integrated budget formulation / execution
- Must be tightly integrated with:
  - \* STARS System
  - \* Departmental programmatic performance management / metrics
- Best immediate solution is to upgrade the current Funds Distribution System (FDS)
  - \* Software built upon Oracle architecture with standard Oracle development tools
    - Simplifies integration with STARS, Standard Budget System
    - Aligns with proposed Corporate Enterprise Architecture
  - \* Incorporates DOE specific business rules
  - \* Already included in estimated effort for deploying STARS



## I-MANAGE Project Portfolio

- **I-MANAGE Data Warehouse**
  - Center of the I-MANAGE “universe”
  - Will be built using software, technology owned by DOE\*
  - Will contain indexed, aggregated, summarized data from other I-MANAGE systems
  - Will provide various access channels and capabilities
    - \* Customizable dashboard for senior, executive management
    - \* Decision support reporting for mid to senior level management
    - \* Targeted “alerts” for specific events
    - \* “What if” analytical capabilities including trending, forecasting, period to period comparisons
    - \* Strong ad-hoc, end-user reporting and query capabilities
  - Requirements definition, analysis and design, should begin ASAP
  - System must adapt to new and changing requirements

\* Hardware requirements not yet defined

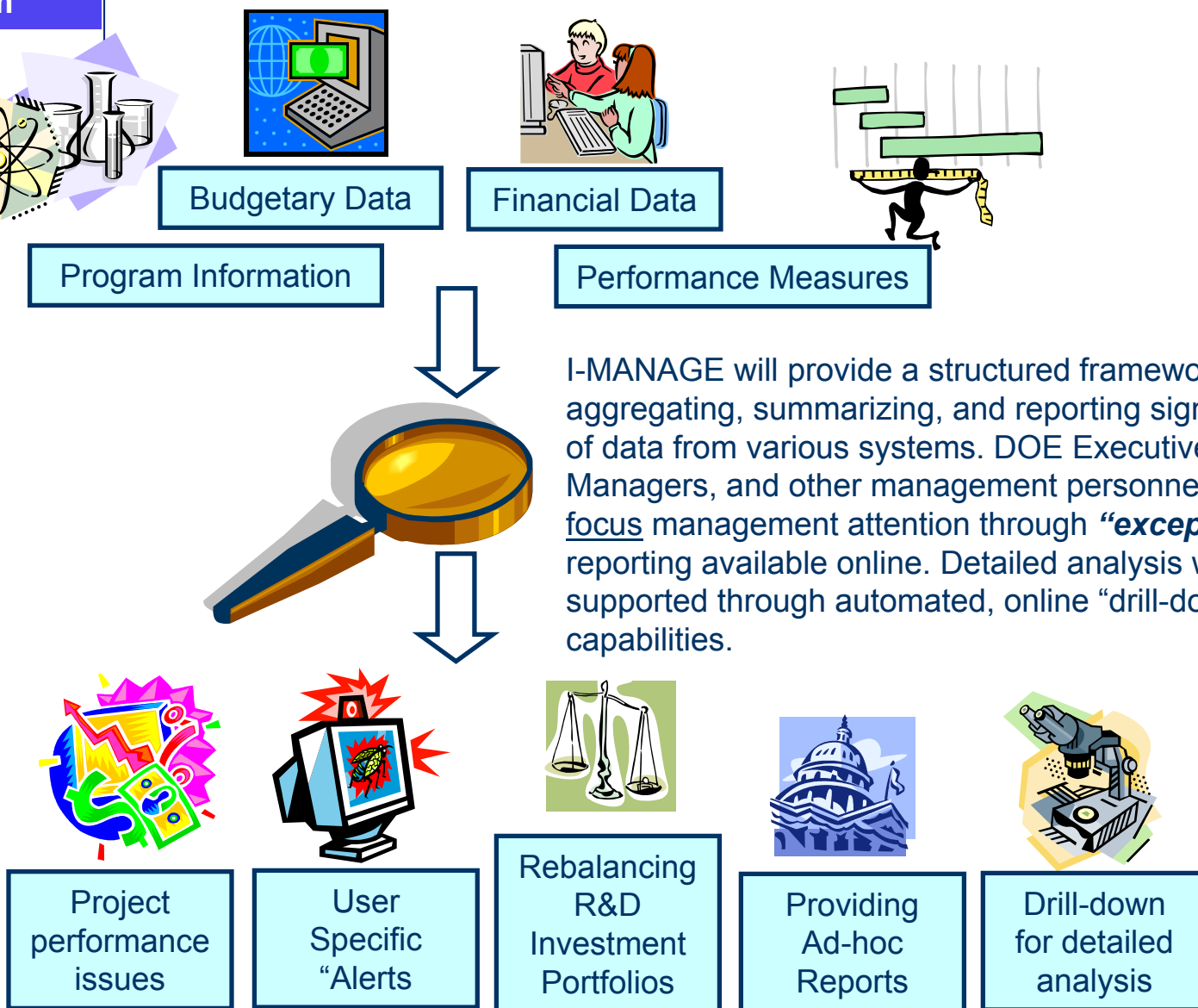
## I-MANAGE Project Portfolio

- **Integrated Performance Management**
  - Key component of other projects, not standalone
  - Analysis, design must run in parallel with STARS, I-MANAGE Data Warehouse
    - \* STARS System will tightly link budget execution, funds control, and costs with performance metrics
      - Will capture link at time of transaction entry
      - Oracle Applications provide robust cross-reference capabilities
    - \* I-MANAGE Data Warehouse must provide ad-hoc reporting of Departmental, programmatic performance
  - Design must be flexible and adaptable to integrate with Standard Budget System
  - Will require ongoing collaboration between:
    - \* I-MANAGE Program Office
    - \* Individual I-MANAGE project initiatives
    - \* HQ programs responsible for defining performance metrics
    - \* OMB and selected DOE program offices

## I-MANAGE Project Portfolio

- **Payroll**
  - This system will be outsourced in 4<sup>th</sup> quarter FY2003
  - Will require development of two separate interfaces
    - \* Interface with legacy accounting system (DISCAS)
    - \* Interface with new STARS system
- **Procurement**
  - Procurement Modernization SIM process completed for:
    - \* e-Procurement
    - \* Contracts management
  - Initial Exhibit 300 submitted, still in planning stage
  - Will be tightly linked with CHRIS, STARS systems
  - Recommend all FY2003 funding be shifted to STARS
- **Facilities Management and R&D**
  - To be determined
  - Coming attractions

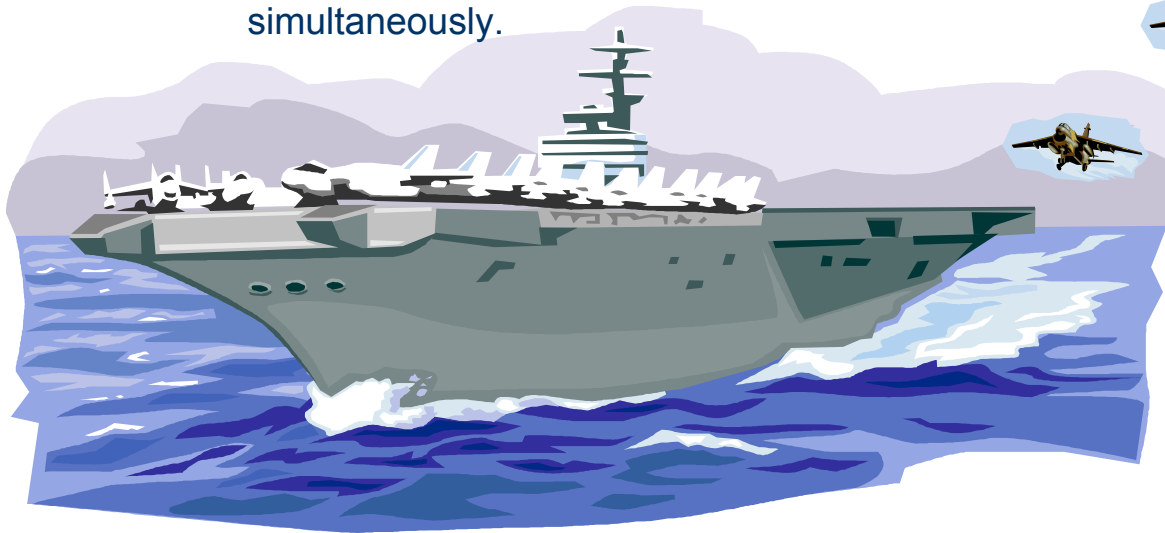
## What I-MANAGE Means to You



I-MANAGE will provide a structured framework for aggregating, summarizing, and reporting significant volumes of data from various systems. DOE Executives, Program Managers, and other management personnel will be able to focus management attention through ***"exception based"*** reporting available online. Detailed analysis will be supported through automated, online "drill-down" capabilities.

## Coordinating Competing Priorities

The A-76 Financial Services Study and the I-MANAGE Business Systems Integration / Modernization rely on the same Federal resources, creating risks for successful completion of each initiative if attempted simultaneously.



Ongoing DOE Program  
Reorganization  
(e.g., NNSA)

I-MANAGE Business  
Systems Integration /  
Modernization

A-76 Financial  
Services Study

Delaying deployment of the integrated financial / budget / performance initiatives until after the A-76 “most efficient organization” is defined will result in a more efficient and orderly implementation with less overall risk:

- Less people to train
- Fewer sites to deploy and convert

## Key Executive Decisions

- **Accelerate A-76 Financial Services Study**
  - \* Decision to be announced in November 03 instead of March 04
- **Delay the STARS Implementation**
  - \* Implementation scheduled for October 04

## SGL Implementation Status

- **Programming completed on all requested changes**
- **Review of all changes underway**
- **Provided SGL chart of accounts to STARS project**
- **Beginning review of integrated contractor data containing August 13<sup>th</sup> required changes**

## **SGL Implementation Status Next Steps**

- **Complete development of SGL edits**
- **Work with STARS team on cross-walking and loading SGL data**
- **Continue development of SGL scenarios and update crosswalk**